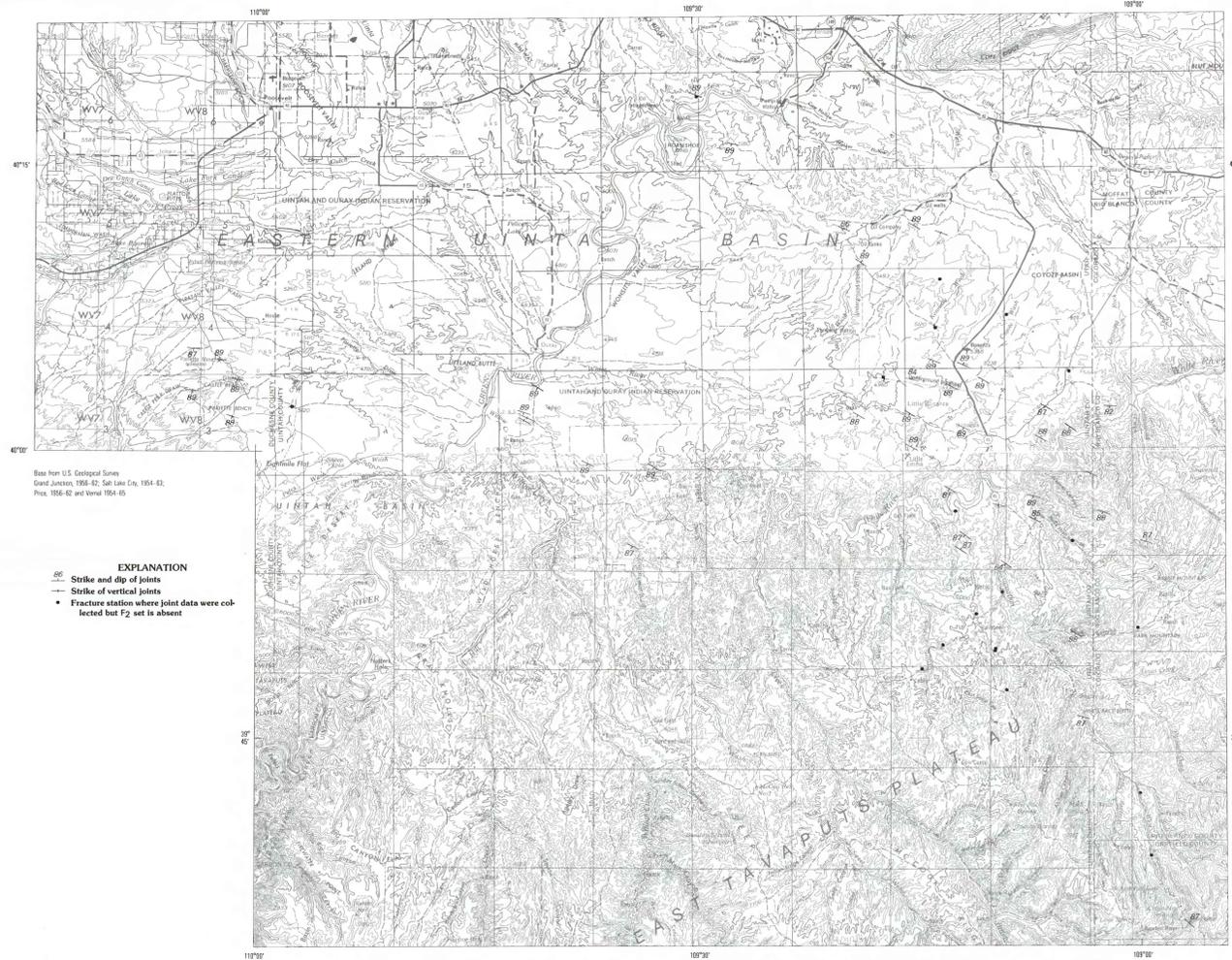


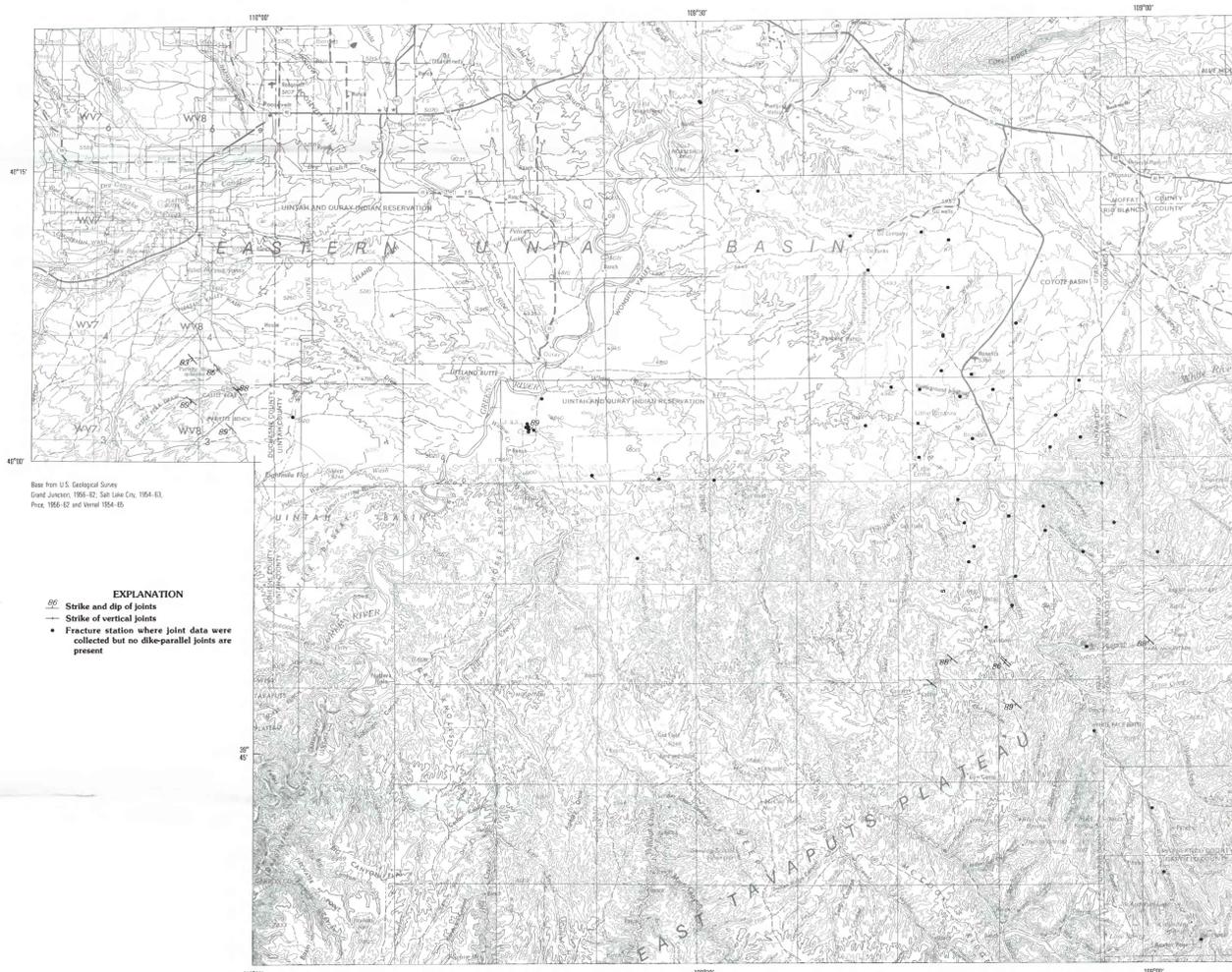
A. Map showing generalized geology, distribution of gilsonite dikes, and fracture station locations

Modified from W.B. Cannon (1973), U.S. Geological Survey Miscellaneous Investigations Map I-726; P.J. Rowe and others (1981), U.S. Geological Survey Miscellaneous Investigations Map I-1525; Ross Stone (1971), U.S. Geological Survey Miscellaneous Investigations Map I-1187; and R.L. Pugh, Jr. (1981), U.S. Geological Survey Miscellaneous Series Bulletin 71.



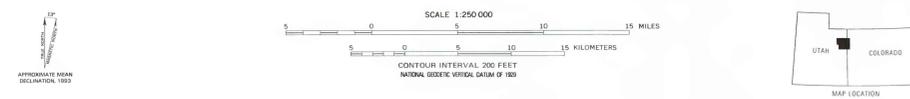
B. Map showing average orientation of joints of F<sub>2</sub> regional fracture set at 47 locations

[NOTE: Some stations south of Ouray are too closely spaced to show individually; for these a collective average is shown. Joints of the F<sub>2</sub> set in many areas are subparallel to gilsonite dikes, but the angular difference between them generally increases westward due to gradual change of joints to more westerly strikes and of dikes to more northerly trends (compare map A)]



C. Map showing average orientations of dike-parallel joints at 13 locations

[NOTE: Dike-parallel joints in some areas are almost parallel to joints of F<sub>2</sub> set (compare map B) but in many places have more northerly strikes, as along dikes at southeast end of Rainbow system near the Utah-Colorado State line and especially along dikes of Pariette system farther west (see map A)]



**MAPS SHOWING GEOLOGY, DISTRIBUTION OF GILSONITE DIKES, FRACTURE STATION LOCATIONS, ORIENTATIONS OF JOINTS OF THE F<sub>2</sub> REGIONAL FRACTURE SET, AND ORIENTATIONS OF DIKE-PARALLEL JOINTS IN THE EASTERN PART OF THE UINTA BASIN, UTAH AND COLORADO**

By  
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1993